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Figure 1

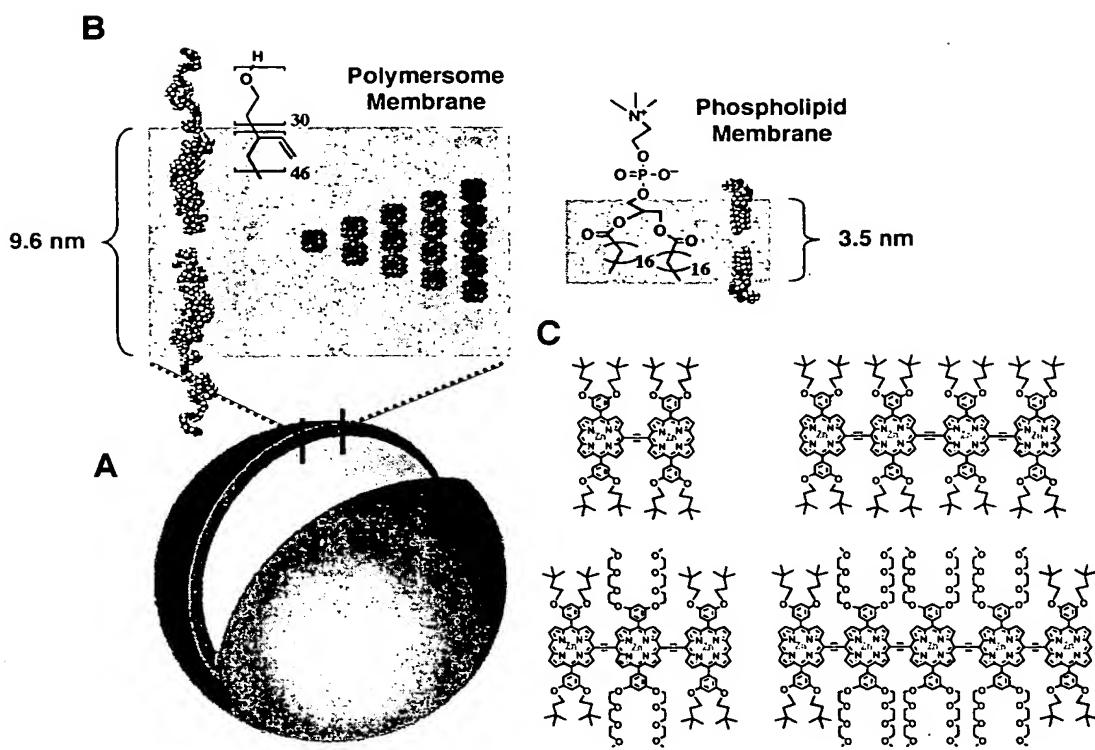


Figure 2

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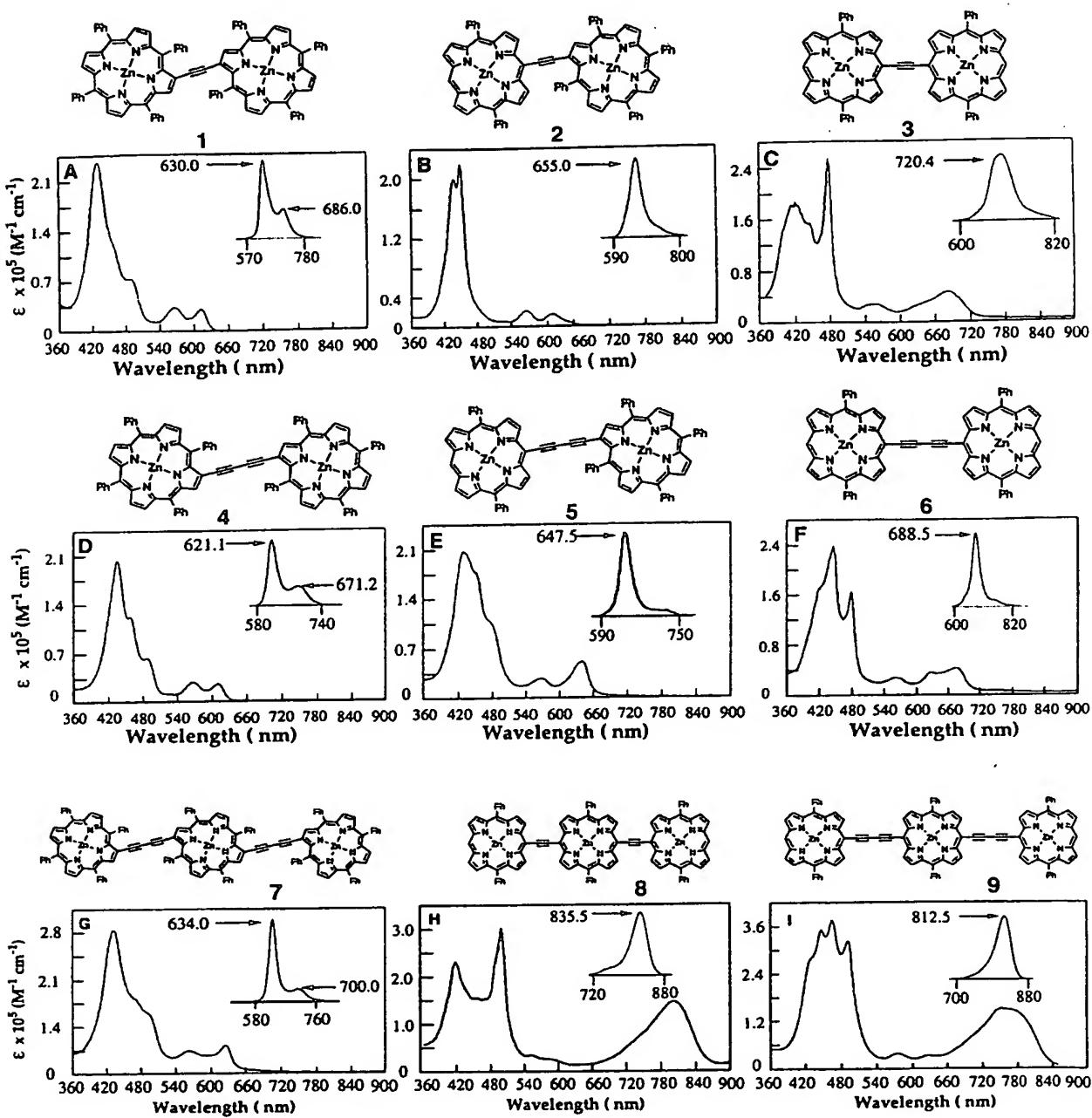


Figure 3

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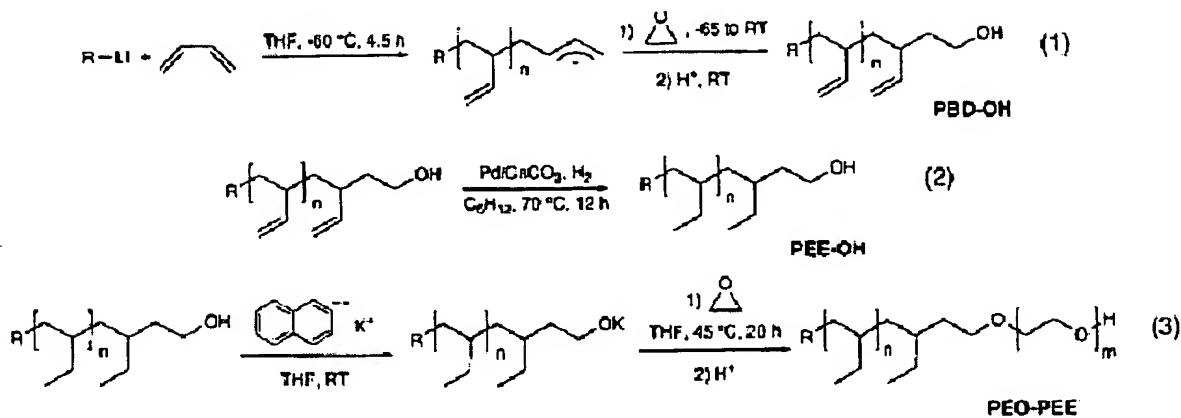


Figure 4

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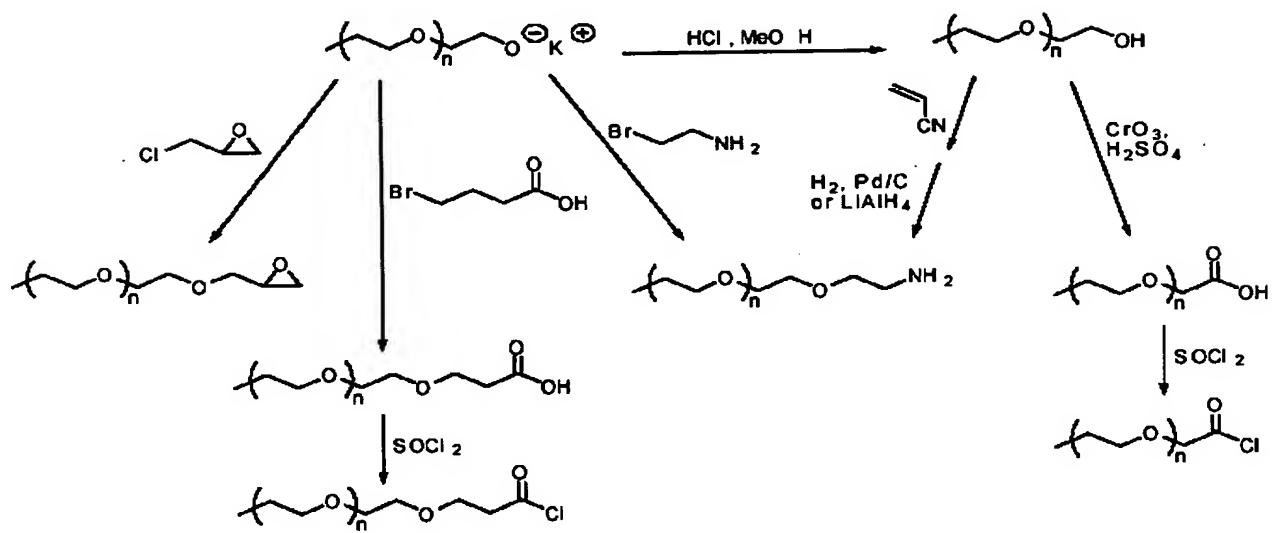


Figure 5

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Yield of polymersomes in aqueous solutions (as mole % of total amount of polymer) dependent upon the molar ratio of polymer:porphyrin-based NIRF species deposited as thin film on Teflon

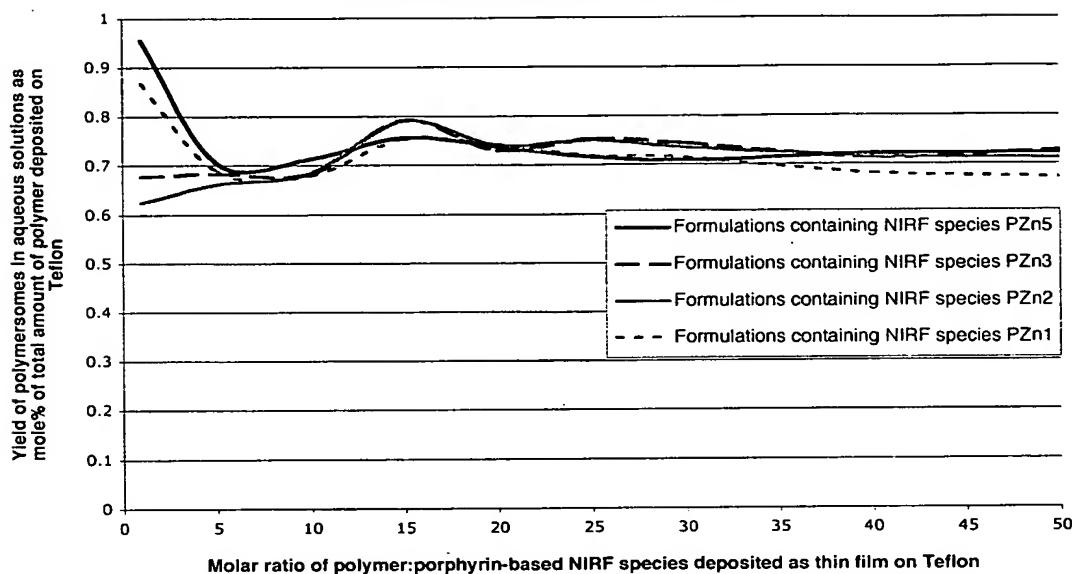


Figure 6

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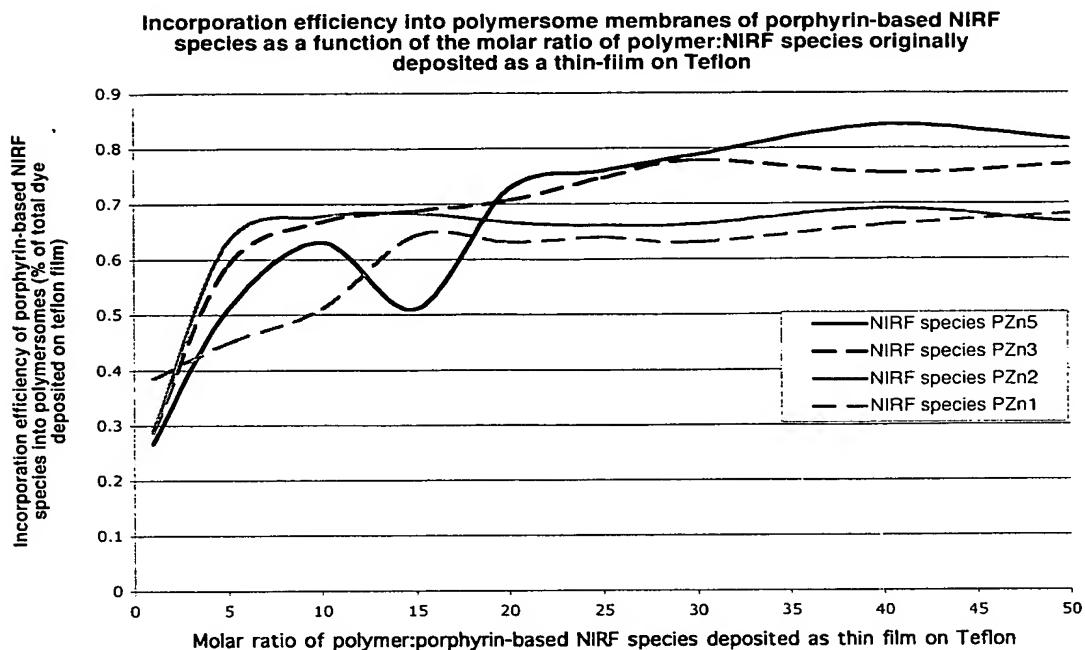


Figure 7

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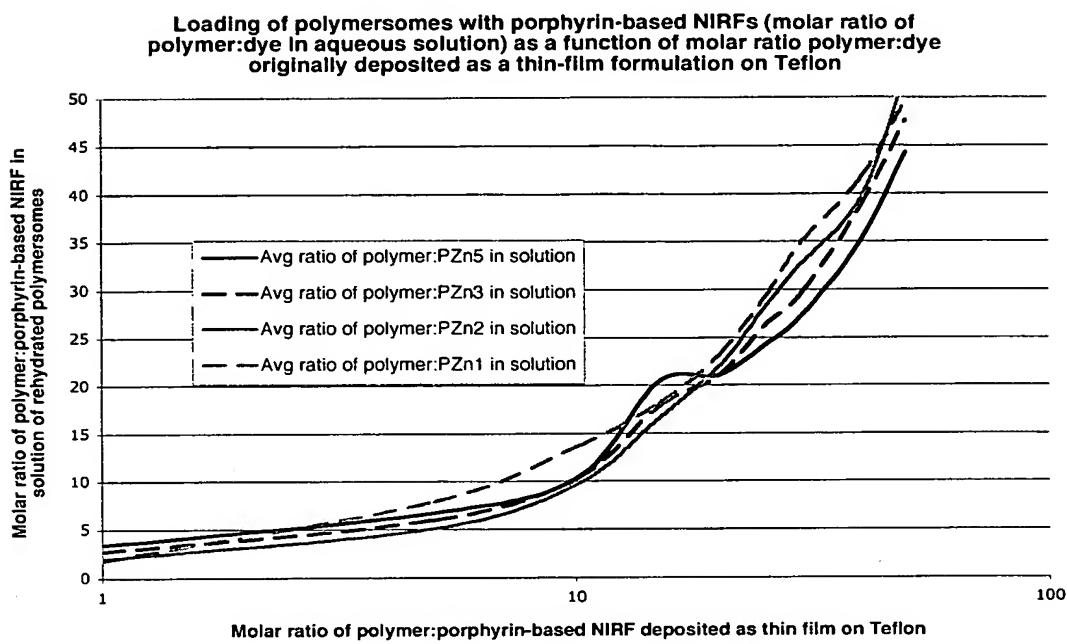


Figure 8

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Relative fluorescence of NIRF-Incorporated polymersomes as a function of membrane loading (molar ratio of polymer:porphyrin-based NIRF species composing the polymersome membrane)

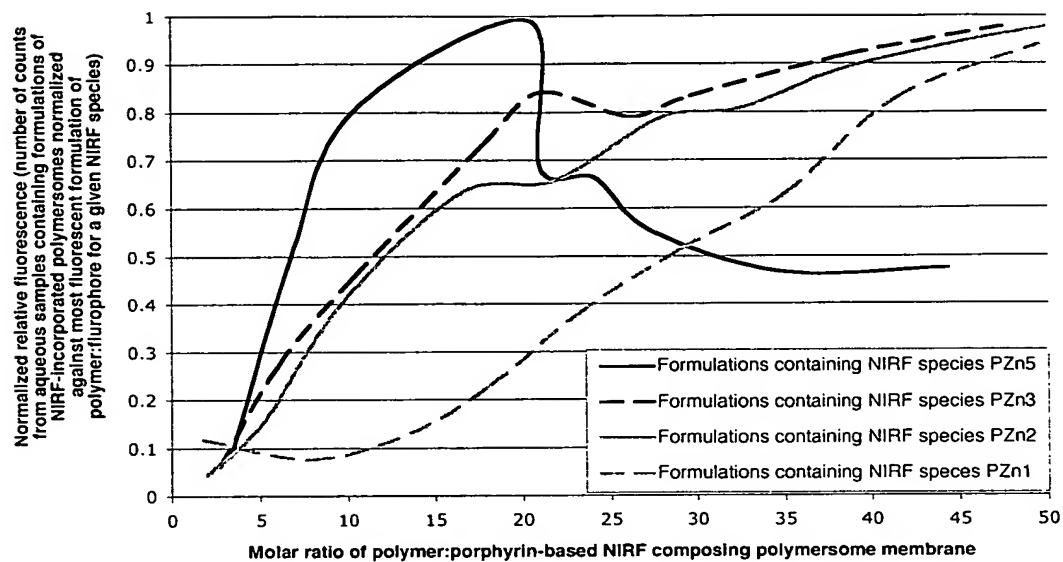


Figure 9

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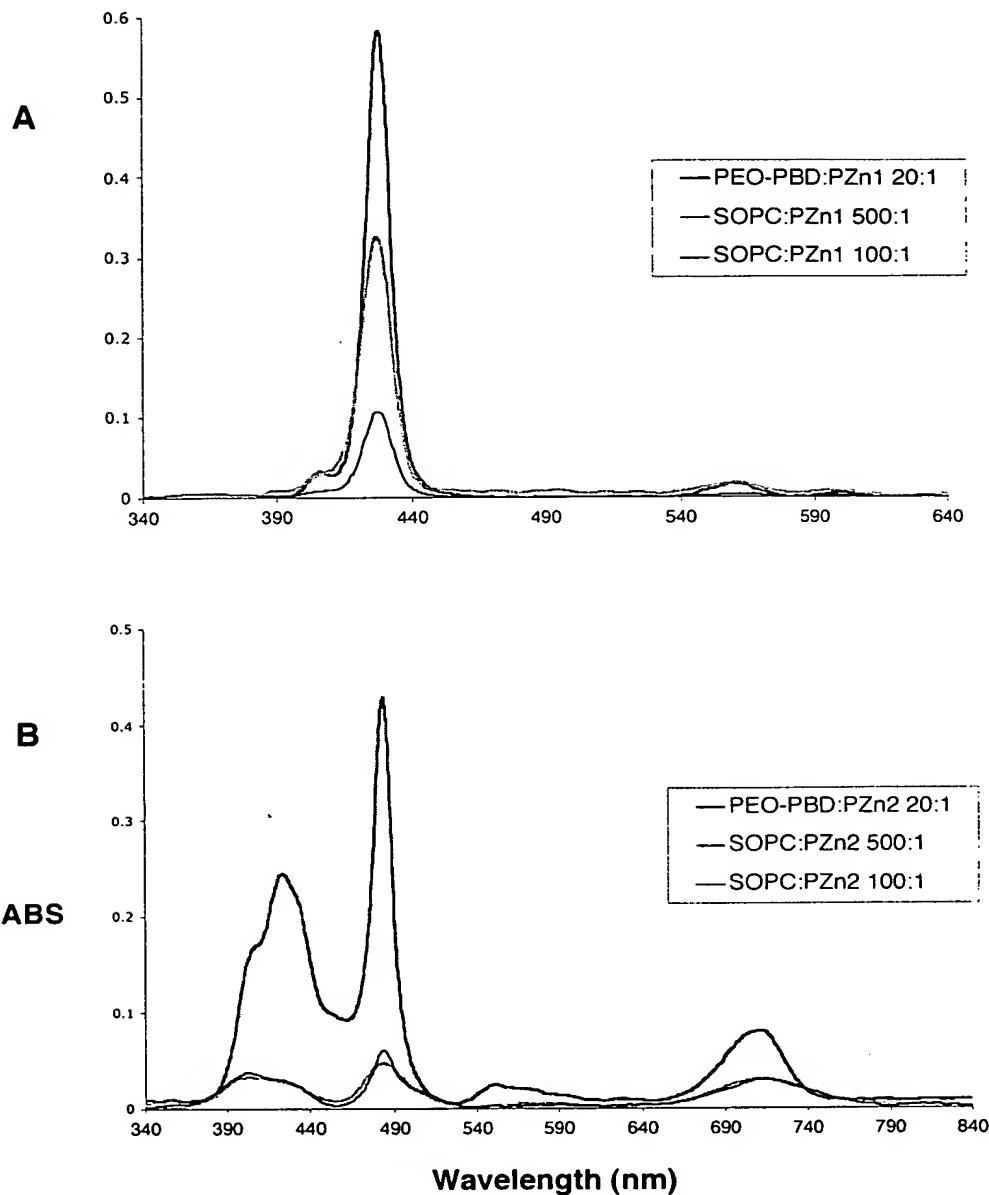


Figure 10

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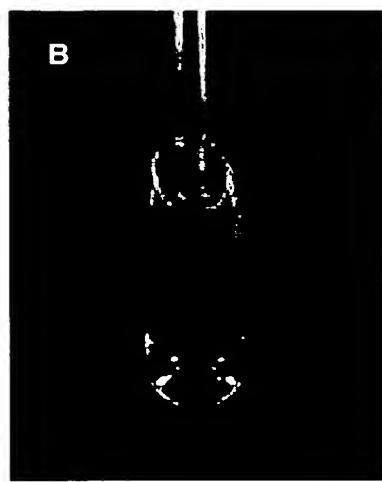
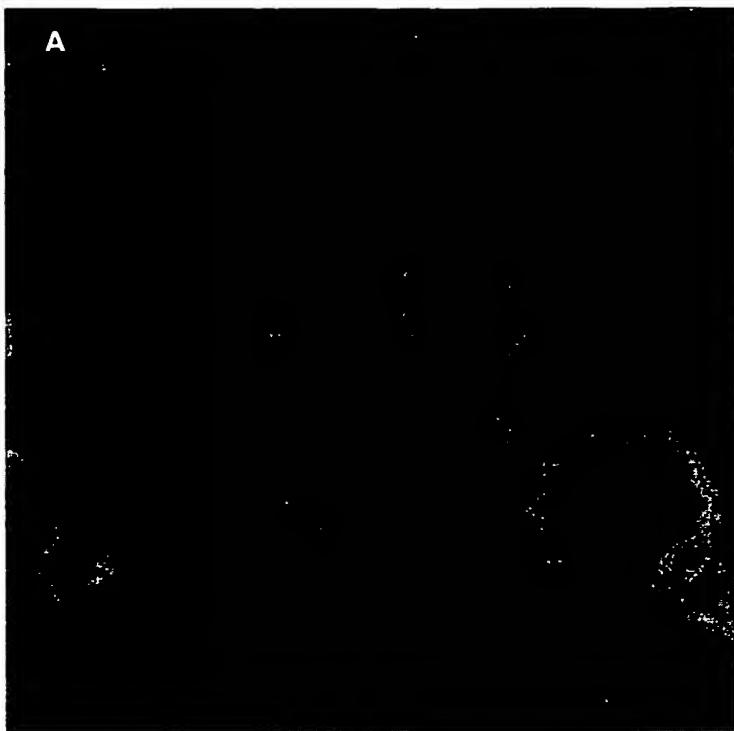


Figure 11

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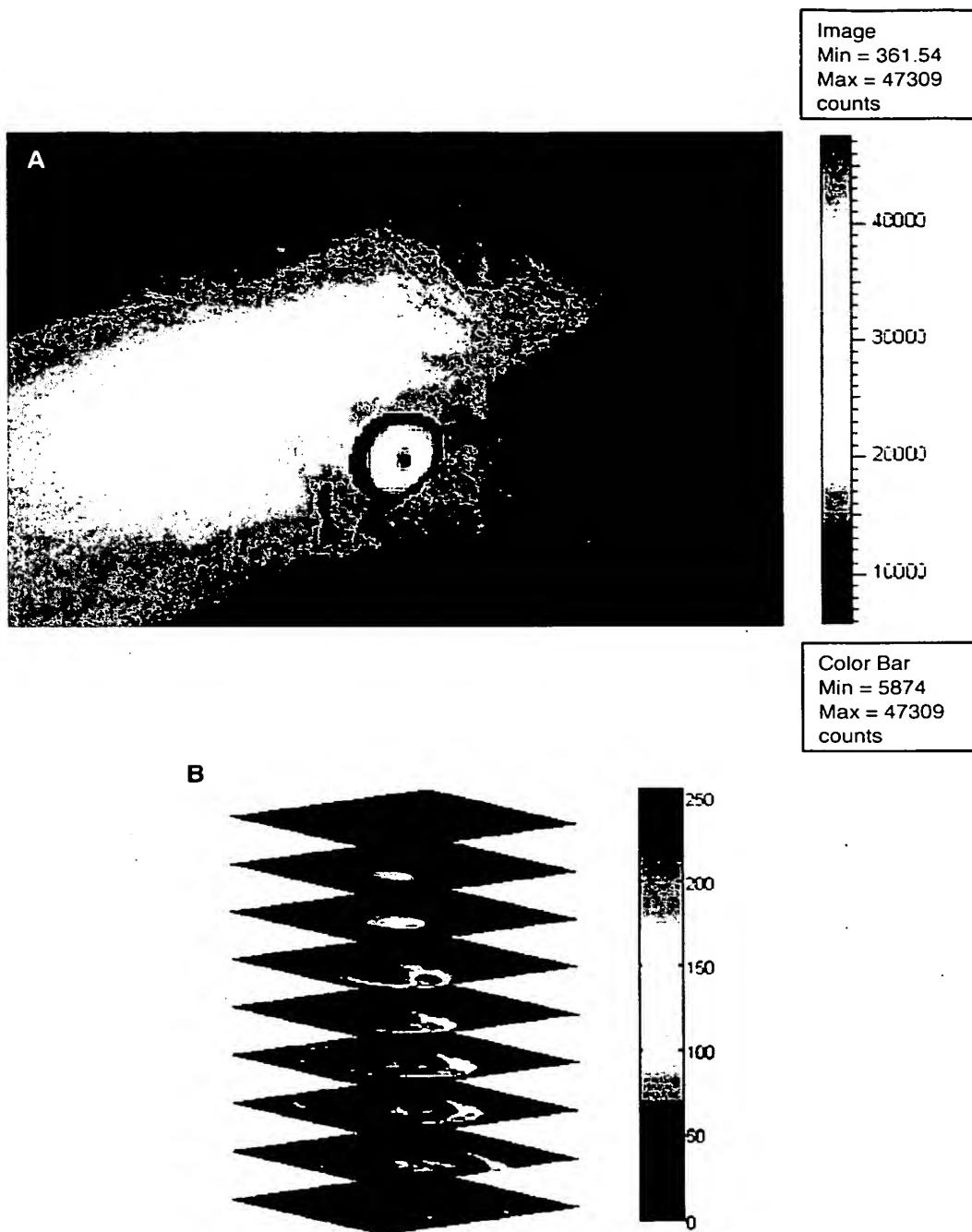


Figure 12

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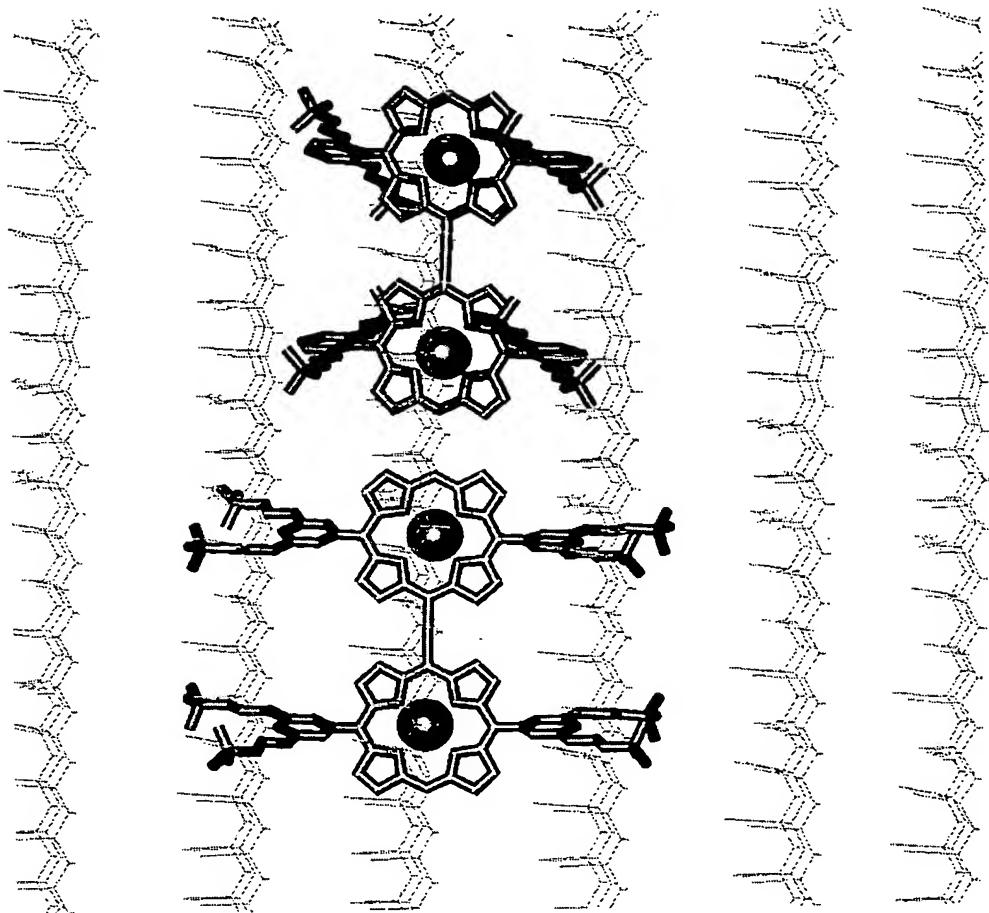
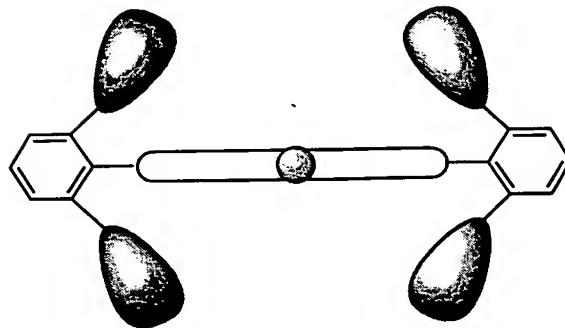


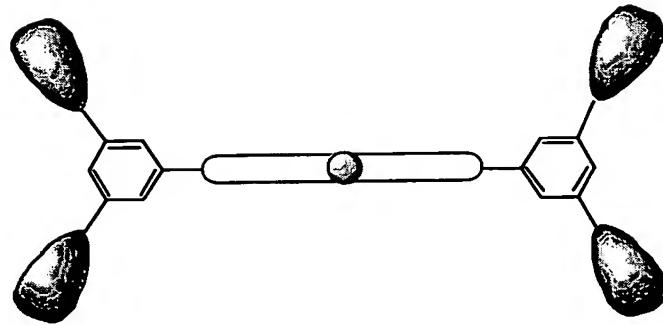
Figure 13

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2, 6 substitution –



3, 5 substitution –



- 2,6 substituted oligomers experience blue-shift in fluorescence emission when incorporated in polymersomes as compared to free compound in THF
- 3,5 substituted oligomers experience red-shift in fluorescence emission when incorporated in polymersomes as compared to free compound in THF

Figure 14

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Compound	Emission in THF	R=	R=
	708 nm	-13 nm in polymersomes	+15 nm in polymersomes
	685 nm	-5 nm	+12 nm
	797 nm	-35 nm	+20 nm
	757	Same	Same

Figure 15

- Based on nature of R group off of phenyl ring

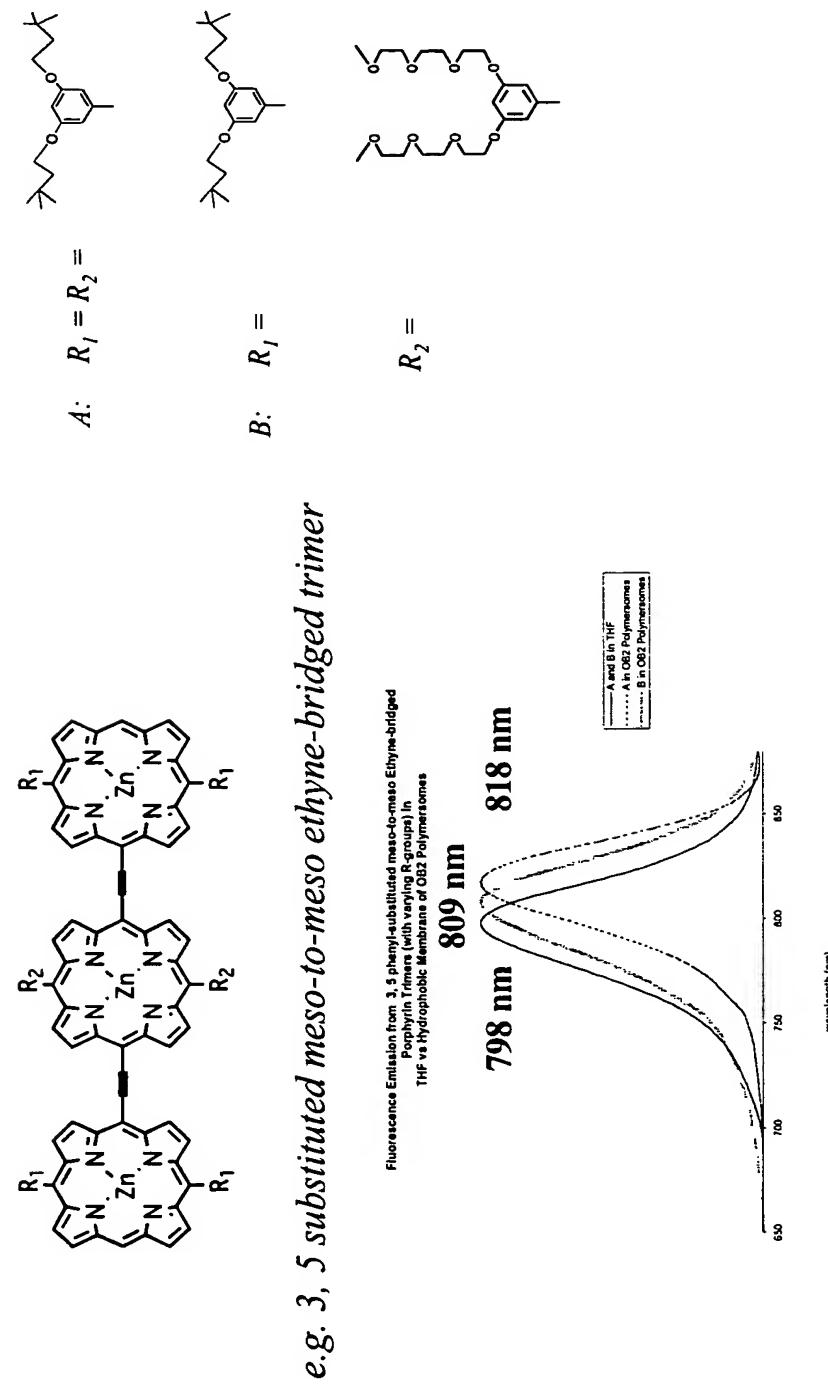


Figure 16

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